

PLACEMENT DOSSIER

Batch 2019-2021

**Symbiosis Institute of
Geoinformatics**

**M.Sc. Data Science &
Spatial Analytics**

Walkthrough

S.No	Content	Page Number
1.	Vision and Mission	3
2.	About Symbiosis	4
3.	Institute Highlights	5
4.	Message from the President	6
5.	Message from Pro Chancellor	7
6.	Messages from Vice Chancellor	8
7.	Message from Director (SIG)	9
8.	Programme Features	10
9.	Programme Structure	11
10.	Faculty	12
11.	Visiting Faculty	13

S.No	Content	Page Number
12.	Guest Faculty	14
13.	Infrastructure	15
14.	Field Visits	16
15.	Cultural Events	17
16.	National Conference	18
17.	Centenary Programme	19
18.	Activities	20
19.	Batch profile	21
20.	Individual Students Profile	22
21.	Contact Us	23



VISION

Promoting international understanding through quality education

MISSION

- To inculcate the spirit of “Vasudhaiva Kutumbakam” (The World is One Family)
- To contribute towards knowledge generation and dissemination
- To impart ethical and value-based learning
- To foster the spirit of national development
- To cultivate cross-cultural sensitivities
- To develop global competencies amongst students
- To nurture creativity and encourage SUS UTES
- To enhance employability and contribute to human resource development
- To promote health and wellness amongst students, staff, and community
- To instill sensitivity towards community and environmental concerns
- To produce thought-provoking leaders for society

SYMBIOSIS : A SAGA OF EXCELLENCE



Symbiosis Motto: "**Vasudhaiva Kutumbakam**" means "World is one Family"

Symbiosis is a family of 44 academic institutions, imparting quality education for 50 years. It is host to over 40,000 Indian and International students on campus and over 1,00,000 students off-campus.

These campuses epitomize the Symbiosis motto, 'Promoting International Understanding through Quality Education', and are a beehive of international students from all across the globe, being privy to Indian culture and hospitality. Many of these campuses are fully residential and have recreational facilities which include swimming pools, amphitheatres & Health Care centers. Keeping its excellent track record in mind, in 2002, the Ministry of Human Resources Development, Government of India conferred the 'Deemed to be University' status on Symbiosis, and further in 2006 the University Grants Commission (UGC), Government of India withdrew the word Deemed and renamed the University as Symbiosis International (Deemed University).

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Highlights

National Institutional Ranking Framework (NIRF) India Rankings 2020



#43 among top universities in India

#109 In BRICS QS
World ranking 2018-19

Only Indian University to
receive the Asia Pacific
Quality Label

Symbiosis Institute of Geoinformatics, Pune

National Education Leadership award
by Lokmat (2014)

Data Analysis Node for
Sentinal Asia

“Geospatial Leadership Award” for
Excellence in Capacity Building (2019)

Sir. Vishwesariya National
best Engineering award
(2015)



Message From Dr. S. B. Mujumdar President and Founder Director, Symbiosis Chancellor, Symbiosis International (Deemed University)



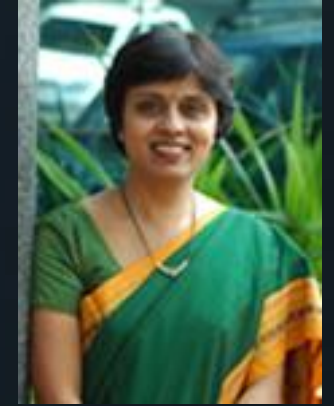
Data is the asset for today's business world which is required to make intelligent business decisions. Today India stands out among the best nations of the world involved in information technology industry. The progress will have to be sustained in the current environment of globalization, fast paced technological advancements and the ensuing intense competition.

Importance of Data science as an advanced technology has been widely acknowledged by the developed and developing countries. The advancements in sensor technology paved the ways for smart objects all around the Globe. Spatial data is the crux of the smart object; hence, the upcoming data deluge. The time and space are nuclei of data patterns generated from various sources. The intricate patterns existing in real-world problems in distinct fields from social media streams, food, finance, insurance climate change, health, etc. have definite time and space facets which are essential to examine and tuning the data as a product scientifically.

Visualizing the need to create adequate trained human resource in this emerging field, Symbiosis Institute of Geoinformatics launched the 2-year Master's programme in Data science & Spatial Analytics in 2019. I am happy to note that the institute has carved a niche for itself in fulfilling aspirations of the students and the data industry in this short duration since its inception and I am confident that it will continue to do so in the days to come.

I wish SIG all the best and success in their future ventures.

Message From Dr. Vidya Yeravdekar The principal Director, Symbiosis Pro Chancellor, Symbiosis International (Deemed University)



The Master's Programme (M.Sc.) in Data science & spatial analytics is a niche programme designed by Symbiosis Institute of Geoinformatics (SIG). A rigorous and multi-stage process ensures the quality of students admitted for this Program. SIG epitomizes the guided vision of university for "Promoting International Understanding through Quality Education".

Geo spatial data accessibility, problem solving, spatial decision support systems are bringing in radical changes in wide areas like social services, human security, education, transportation, marketing. Spatial map is considered as core infrastructure of modern IT world, much needed expertise by Industries and motor companies. Data Sciences tries to solve the data intensive, large scale and location based problems.

Upon completion of studies at SIG, students will be able to understand field of Data Science, role of analysts, and have career prospects in domains where spatial data science skills can be applied to important, critical aspects of any organization. SIG exposes students to a vibrant campus life, industry interaction, and experiential learning with government supported live projects on analytics, prediction and technological summits. Additional to academic acumen, SIG inculcates human values and professional ethics, developing critical and analytical skills in the students.

The institute has made valuable contributions to national causes by undertaking social projects for monitoring and predicting the drought scenarios in drought prone areas in Maharashtra. This has helped the faculty and students in application of their knowledge to live projects. I am confident that SIG will continue to strive to reach higher goals in meeting the aspirations of both the industry as well as the students.

I wish the SIG students success in their careers and all future endeavors.

Message From Dr. Rajani Gupte Vice Chancellor, Symbiosis International (Deemed University)



Warm Greetings!

Epitomizing the Symbiosis motto, 'Promoting International Understanding through Quality Education', Symbiosis Institute of Geoinformatics (SIG), an Institute of the University, has maintained the rich legacy of Symbiosis by offering niche programmes in the domain of Geoinformatics and Geospatial sciences.

The Institute stands on the foundation of an excellent, committed and deeply knowledgeable faculty, innovative and unique pedagogical tools and an eclectic and diverse student community who seek new paths.

Today, considering the technological advancement for availing high-resolution spatial data and high computational architectures for the proliferation of Geo-intelligence and business intelligence, SIG, offers a two-year Master of Science programme in Data Science & Spatial Analytics. The programme enables an overall transformation of the students, laying a foundation to build domain expertise and systemic approach to problem-solving amongst students. The robust curriculum hones the skills of the students through projects, industry exposure and field visits.

Symbiosis is very proud of its alumni holding coveted positions in corporate organisations, think tanks, government organisations, research institutes, NGOs and international organizations, while others pursue further studies in top national and international universities.

This brochure will give you more details about our programme. You are a part of our journey and we assure that our students are equipped with personal and professional skills and industry-ready. I take this opportunity to welcome you to interact with our diverse and talented student community.

Message From Dr. (Prof.) T. P. Singh Director, Symbiosis Institute of Geoinformatics (Pune)



Novel Artificial Intelligence techniques, inclusively Machine learning and deep learning aspects, are uniformly revamping a range of fields from finance and banking to healthcare and earth observations. Over the decades, the volume, variability, and variety of earth observing data have tremendously increased and have generated footprints in almost every terrain of society.

In the Data Science and Spatial Analytics programme, which include the third dimension of the data in which the students undergoes a well-structured and industry aligned coursework covering varied and relevant collection of courses from mathematics, statistics, data practices and management, machine learning, artificial intelligence, predictive analysis, web analytics, big data infrastructure and spatial analytics. In semester 3, students undertake a mandatory internship in the industry.

The course curriculum equips upcoming data scientist with knowledge and skill set required to excel the professional roles in the industry. The programme structure is very relevant to data industry ranging from defense, agriculture, health, telecom, transport, finance, banking and high volume of satellite data. The series of workshops, guest lectures and summits are arranged with industry experts who augment the curriculum with their insights.

I anticipate an overwhelming response this year for the very first batch.

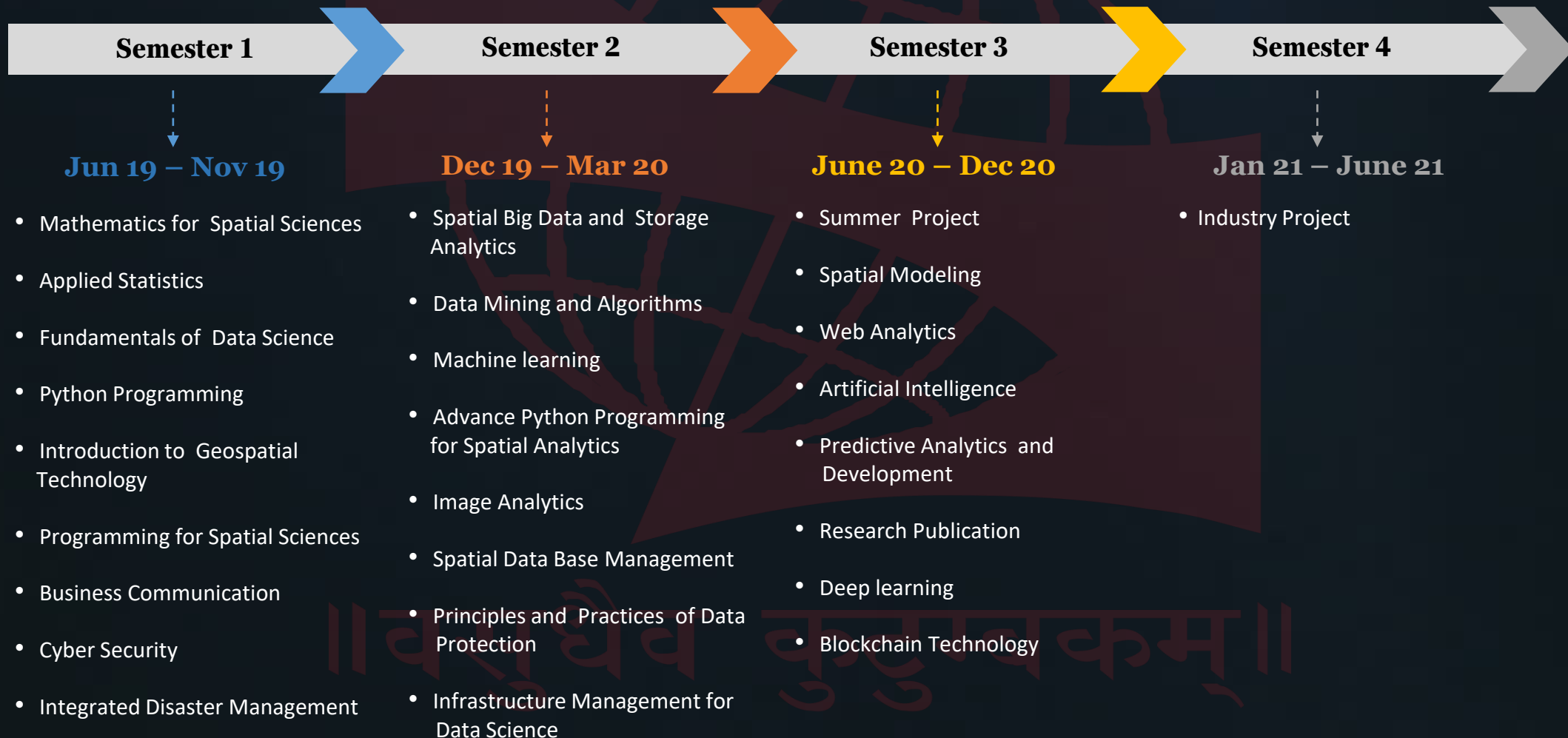
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Prominent Features of M.Sc. Data Science and Spatial Analytics Programme

- The programme has been designed with the objective to create highly professional human resources in the field of Data Science and Spatial Analytics equipped with IT and information management skills to cater to the global industry requirements.
- It's an 80 credits programme.
- The assessment of the students for each examination is done based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (outstanding). For all courses, a student is required to pass both internal and external examinations separately with a minimum Grade Point of 4 corresponding to Grade P. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of a maximum of 10 CGPA for the programme.
- The programme prepares the students to become industry-ready. The programme structure encourages the students to work on their own projects and further publish their work in scientific journals.
- The programme provides students an appropriate exposure to technologies like Deep Learning, Artificial Intelligence (AI), and Big Data. The programme content and flow make sure that students achieve high proficiency in programming, statistics, and data visualization techniques.
- The mandatory industry project in the 4th semester is an opportunity for the students to apply their knowledge to more industry-relevant real-world problems.

Programme Structure

The M.Sc. Data Science and Spatial Analytics program is divided in 4 semesters including summer project. The degree is conferred under the aegis of Symbiosis International (Deemed University). Details of the Programme curriculum are as follows:



Faculty



Dr.(Prof) T.P. Singh
Director



Dr. Vidya Patkar
Deputy Director



Mrs. Darshana Pathak
Programme Incharge



Dr. Navendu Chaudhary
Placement Head



Dr. Sandipan Das
Assistant Professor



Dr. Dharmaveer Singh
Assistant Professor



Dr. Binaya Kumar Pattnaik
Assistant Professor



Lt Col B.K. Pradhan
Adjunct Faculty



Mrs. Pritanka Chavan
Teaching Assistant

Visiting Faculty

Faculty	Course
Mr. Sandeep Sinha	Orientation Program
Mr. Shreekant Phadke	Applied Statistics (Sem 1)
Mr. Om Prakash Lalchandani	Fundamental of Data Science (Sem 1)
Mr. Rajat Chopra	Programming for Spatial Science (Sem 1)
Mrs. Seema Mathew	Business Communication (Sem 1)
Mr. Sagar Bedre	Cybersecurity (Sem 1)
Mr. Avinash Deshmukh	Spatial Big Data and Storage Analytics (Sem 2)
Mr. Devdatta Tengshe	Spatial Big Data and Storage Analytics (Sem 2)
Dr. Santosh Chouhan	Machine Learning (Sem 2)
Dr. Anupam Saraph	Principles and Practices of Data Protection (Sem 2)
Dr. Devawrat Bhawe	Infrastructure Management (Sem 2) Deep Learning (Sem 3)

Guest Faculty

Application of Data Mining in Financial Sectors

SIG, Pune organized a guest lecture based on applications of data mining in the financial sector. This lecture was taken by Ms. Sonali Kulkarni on 30th December 2019. Data mining can be defined as the process of selecting, exploring and modeling large amounts of data to uncover previously unknown patterns. In the financial industry, data mining can help firms gain a business advantage. By using data mining techniques financial sectors can help to reduce fraud and enhance risk management.



SWOT Satellite Mission

SWOT Satellite Mission for the future SIG organized a guest lecture on Satellite Mission and need data structure for the future. This lecture was taken by Dr. Chandana Gangodagamage on 10 October 2020. The main objective was to make a data structure for the SWOT mission. The guest lecturer explained how this data structure is important for characterizing the ocean mesoscale and sub-mesoscale circulation at spatial resolutions of 10 km and larger.



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Infrastructure

SIG (Pune) has infrastructure ideally suited to conduct training, which exposes students to recent developments taking place in the corporate world of data analytics.

Powered by the latest GIS and Image Processing softwares, various programming tools like R, Python, Databases and high-speed internet connection, SIG Laboratory provides students with hands-on experience in programming, Data Analytics and Machine Learning.

The computer lab is fully advanced equipped with LCD Projectors and High-end computers in the network environment with large monitors.

The library is fully stocked with different books covering different domains like Data Science, Remote Sensing, and Artificial Intelligence, etc.



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Field Visits

Center for development of Advanced Computing (C-DAC)

On 27th September 2019, students got an opportunity to visit the CDAC center situated within the Savitribai Phule Pune University. They had a fruitful interaction with scientists regarding their research projects. The students learned more about the functioning of the 'Param' Supercomputers and how they were used for cutting edge Research and Development work across the country.



Godrej Industry Visit

On 31st January 2020, the students got an opportunity to visit and learn more about the functioning of Godrej data centers situated in Mumbai. The students interacted with the senior employees at Godrej and understood their vision to leverage Data Science for better decision making.

The students also attended a session organized by the cyber-security expert at Godrej.



Mahabaleshwar Trip

On 1st March 2020, a field trip was organized by Dr. T.P Singh, for collecting data required for preparing land use and land cover maps of the Mahabaleshwar, Pune area. Students learned the essential skill of collecting their own data. They truly understood how the quality of data makes or breaks a Spatial Data Science project.



Cultural Events

Khula Manch (Annual Cultural Fest)

SIG celebrated its annual cultural fest on 19th August, 2019. The fest was based on the theme- “RETRO”. It was a small attempt to bring back those golden days that instilled a feeling of nostalgia among everyone. This was accompanied by a series of performances prepared by the students who successfully rose to the occasion.



Milaap (Annual Alumni - Student Meet)

On 14th September, 2019, SIG conducted the Annual Alumni- Student Meet(MILAP). The theme of the event was “MASQUERADE”. The goal was to have a get-together with the alumni. There were a few performances by the current batch students for the alumni. This event witnessed the special bond that is shared among all the batches at SIG.



National Conference on "Geo-Intelligence for Sustainable Development"

India is facing number of challenges like population growth, climate change and disasters, environmental degradation and pollution, water scarcity etc. that demands immediate actions to achieve goals of sustainable development. Finding appropriate solutions to these challenges are not easy because of their complex nature and require the state-of-the art technology for dealing with the same.

A field evolved alongside this progress, is field of Geo-Intelligence (GI). GI technology can be augmented through advancement in Big Data and Artificial Intelligence (AI). GI technology should evolve to cater to a framework to integrate geo-spatial data, earth observations and predictive modelling in order to recognize complex phenomena.

Therefore, SIG, Pune took the initiative of conducting a National Conference on Geo-intelligence on the 12th and 13th of July 2019, with the following objectives:

1. Deliberation to define the role and value of GI technology towards sustainable development.
2. Making domain-wise strategies to leverage GI to create opportunities for researchers and decision makers.
3. Creation of an action plan to follow-up on outcomes of the conference and build partnerships.



Vikram Sarabhai Centenary Programme

A Vikram Sarabhai Centenary Programme, a centenary tribute to Dr. Vikram A Sarabhai was held at Symbiosis Institute of Geoinformatics, Pune on 24th and 25th January 2020, which was jointly organised by Regional Remote Sensing Centre Central(RRSC-C), NRSC, ISRO Nagpur and SIG, Pune. The event included a centenary space exhibition of various ISRO models, painting competition, peak and speak competition, quiz competition etc. to encourage and intrigue curiosity and awareness among the young school and college students about Dr. Vikram Sarabhai- The Father of Indian Space Program. Dr. V. Jayaraman, Former Director of National Remote Sensing Centre and Earth Observation System, ISRO, also delivered a memorial Lecture on Dr. Sarabhai's honor.



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Activities

Datathon (HERE Technologies)

On 18th and 19th September 2019, Datathon was organized by HERE Technologies, world's No. 1 location platform (According to ovum location platform index 2019). The two days Datathon is all about solving real life locational problems by exploring power of spatial data and Artificial Intelligence and Data Science with the help of GIS tools and technologies along with HERE Open-Source tools. Various problems to dealt with was family connectivity for emergency, City Life Emergency platform and Life Portal for shared transportation.



Fitness For Freedom Run

SIU organizes a Fitness For Freedom Run on 15th August every year at Lavale Campus. SIG makes its presence felt at the event every year by participating in good numbers to celebrate the spirit of Independence in a unique manner.



Batch Profile Overview

Batch Size



28

Gender Ratio



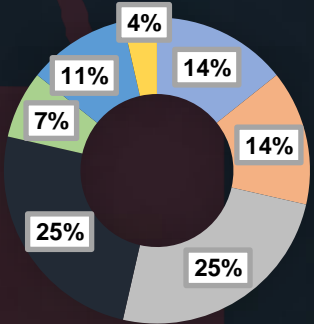
42%



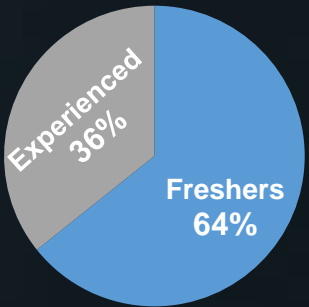
58%

Academic Diversity

- Mathematics
- Electronics and communication
- Computer Science
- Statistics
- Geology/Geography
- Physics
- Biochemistry



Work Experience



Knowledge Area

Machine Learning	Deep Learning	Exploratory Data Analysis	Data Mining
Data Analysis	Spatial Analysis	Data Visualisation	Predictive Modelling
Big Data & Management	Data Cleaning	Database Management	Probability & Statistics
ERDAS	ARCGIS	Python/R	Google Earth



NAME: Anju Kumari Shaw



SUMMER PROJECT :

Crime Data Analysis and Prediction

AREA OF INTEREST :

Data Analyst, Data Engineering, Machine Learning Engineer, Data Mining and Statistical Analysis, Deep Learning, Business Intelligence Analyst, Data Visualization, Marketing Data Analytics, Artificial Intelligence, E-commerce, Retail, Insurance, Natural language processing

SKILL SET :

Tools: PostgreSQL, ERDAS Imagine, ArcGIS, Jupyter, R Studio, Power BI, Tableau

Programming language: Python, R

Packages and Frameworks: Scikit-learn, Matplotlib, NumPy, Pandas, Seaborn, Tensorflow, Keras

NAME: Ayushi Agarwal



SUMMER PROJECT :

Building Chatbot to handle query rush during admission process using NLP and various text models.

AREA OF INTEREST :

Text analysis and NLP, Chatbot, Data Analysis, Spatial Analysis, Data Visualization, Machine Learning

SKILL SET :

Tools: Anaconda, ERDAS Imagine, ArcGIS, PostgreSQL, MS-Excel

Programming language: C, Java, Python, SQL

Packages and Frameworks: Spacy, Pandas, NumPy, Plotly, Scikit-learn, Selenium, BeautifulSoup

NAME: Sanket Dagade



SUMMER PROJECT :

Building classification models to analyze the suicide rates in European Region and predicting Life-expectancy for same using machine learning algorithm.

AREA OF INTEREST :

Machine Learning, Data Analysis, Data Mining, Big Data, Data scientist, Data Engineer, Healthcare, E-commerce, Information Technology

SKILL SET :

Tools: R Studio, Anaconda, ERDAS Imagine, ArcGIS, PostgreSQL, QGIS

Programming language: Python, R, C, Java, PHP

Packages and Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, Tensorflow, Keras.

NAME: Rutika Ujwal Dhumal



SUMMER PROJECT :

Model for Crop Prediction and suggestion of fertilizers

AREA OF INTEREST :

Data Analysis, Machine Learning, Deep learning, Statistical Analyst, Artificial Intelligence, Quality control, Text analysis and NLP, Finance, Agriculture, Healthcare, Data visualization, Spatial Analysis

SKILL SET :

Tools: Anaconda, R Studio, ERDAS Imagine, ArcGIS, PostgreSQL, Tableau

Programming language: R, Python, C, JavaScript

Packages and Frameworks: Pandas, Numpy, Plotly, tkinter, Scikit-learn, Matplotlib, Keras, OpenCV, Seaborn,

NAME: Goresh Sharma



SUMMER PROJECT :

Development of Mathematical Framework for Modeling Compositional Data: Defining Air Quality Index

AREA OF INTEREST :

Data Mining, Machine Learning, Data Visualization, Spatial Analysis, Computer Vision, Image Processing, Statistical Modeling, Optimization Techniques, Natural Language Processing, Data Engineering, Energy Management, Public Health Management.

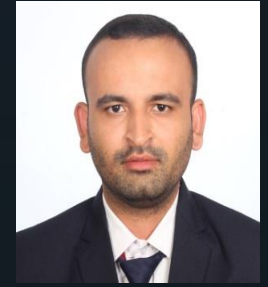
SKILL SET :

Tools: RStudio, Anaconda, PyCharm, ArcGis, ERDAS Imagine, PostgreSQL

Programming language: Python, R, SQL

Packages and Frameworks: Caret, ggplot2, Glmnet, TensorFlow, Scikit-learn, Matplotlib, Numpy, Pandas, Bibliometrix, Openair.

NAME: Saurabh Joshi



SUMMER PROJECT :

Image generation using Deep learning

AREA OF INTEREST :

Data Science, Data Engineering, Machine Learning, Deep Learning, Artificial Intelligence, Aviation, Information Technology, Healthcare, Product Management

SKILL SET :

Tools: PyCharm, Jupyter, Tableau, PostgreSQL, Oracle SQL

Programming language: Python, JavaScript, SQL

Packages and Frameworks: TensorFlow, Scikit-learn, Matplotlib, Numpy, Pandas, Keras

NAME: Karottapuram Joyous Vareeth



SUMMER PROJECT :

Prediction of Fake Job Posts

AREA OF INTEREST :

Data Scientist, Data Engineer, Web Scraping, ETL, Data Warehousing, Data Analyst, Cloud Computing, ML APIs, Cloud SQL, Big Data, Artificial Intelligence, Web development, Finance, Retail, E-commerce.

SKILL SET :

Tools: Visual Studio Code, Rstudio, Anaconda, PyCharm, Tableau, Power BI, GCP, PostgreSQL

Programming language: Python, R, HTML, CSS, JavaScript, SQL, PySpark

Packages and Frameworks: Numpy, Pandas, Matplotlib, Wordcloud, BeautifulSoup, OpenCV, Selenium

NAME: Debarpan Mondal



SUMMER PROJECT :

Factors affecting GDP and Forecasting GDP of India

AREA OF INTEREST :

Business Intelligence, Data Analyst, Machine Learning

SKILL SET :

Tools: R Studio, Anaconda, Tableau, Power BI

Programming language: Python, R

Packages and Frameworks: TensorFlow, Scikit-learn, Matplotlib, Numpy, Panda, Keras

NAME: Shubham Patil



SUMMER PROJECT :

Smart Electric Grid Data Analysis Using Time Series Forecasting Model on R Software And Python

AREA OF INTEREST :

Data Analysis, Statistical Modeling, Data Science, Marketing Analytics, Financial Data Analytics, Banking Analysis, Spatial Analysis, Machine learning, Deep Learning Business Intelligence, Big Data, AI.

SKILL SET :

Tools: Anaconda (Jupyter), RStudio, Erdas Imagine, QGIS, ArcGIS, MySQL, PostgreSQL

Programming language: C, Python, R

Packages and Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, Tensorflow, Keras.

NAME: Shraddha Rajput



SUMMER PROJECT :

Image super resolution using deep learning

AREA OF INTEREST :

Data Scientist, Machine learning, Deep Learning, Data Analyst.

SKILL SET :

Tools: Anaconda, Pycharm, Rstudio, ERDAS imagine, ArcGIS, PostgreSQL

Programming language: C, Python, R, SQL

Packages and Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib, Keras.

NAME: Varad Sawant



SUMMER PROJECT :

Predict the outcome of IPL matches using machine learning

AREA OF INTEREST :

Machine Learning, Data Analysis, Data Mining, Big Data, Data scientist, Data Engineer, Sports, E-commerce.

SKILL SET :

Tools: R Studio, Anaconda, ERDAS Imagine, ArcGIS, PostgreSQL, QGIS, Pycharm, Tableau

Programming language: Python, R, Julia

Packages and Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, Plotly

NAME: Shuvam Sanyal



SUMMER PROJECT :

US Corporate Bankruptcy Prediction (1979-2017) using Machine Learning algorithms and python.

AREA OF INTEREST :

Financial Data Analytics, Investment Banking Analytics, Marketing Analytics, Spatial Analytics, Data Science, Machine Learning, Deep Learning, Statistical Modeling, Business Intelligence, Data Reporting, Big Data, Management Consulting Data Analytics, IT Consulting, E-Commerce, Healthcare Analytics.

SKILL SET :

Tools: Tableau, Power BI, VBA Macro, Excel, Alteryx, Sharepoint, SAP-Success-factor, Peoplesoft, Hadoop

Programming language: R, Python, SQL

Packages and Frameworks: NumPy, Panda, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, ggplot2, dplyr, tidyr, rattle, caret.

NAME: Soumya Kumar



SUMMER PROJECT :

Detecting serial killer activity from all the murders reported in Los Angeles (1976-2017).

AREA OF INTEREST :

Data Analysis, Data Visualization, Machine Learning, Spatial Data Analysis, Data Storytelling, Deep Learning, NLP.

SKILL SET :

Tools: R Studio, Anaconda, ERDAS Imagine, ArcGIS, PostgreSQL

Programming language: Python, R

Packages and Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras

NAME: Srijani Mitra



SUMMER PROJECT :

Image Steganography Modeling using Deep learning.

AREA OF INTEREST :

Data Analysis, Data Scientist, Data Engineer, Machine Learning Engineer, Deep Learning, Artificial Intelligence, Aviation, Information Technology, Healthcare, E-commerce, Retail, Scientific Research, Academia.

SKILL SET :

Tools: ArcGIS, ERDAS Imagine, QGIS, PyCharm, Jupyter, Tableau, R Studio, MATLAB, PostgreSQL, Oracle SQL

Programming language: R, Python

Packages and Frameworks: PyTorch, TensorFlow, Scikit-learn, Matplotlib, Numpy, Pandas, Keras

NAME: Srishti Dubey



SUMMER PROJECT :

Modeling Phytoplankton response to climate change using Machine Learning algorithms.

AREA OF INTEREST :

Data Science, Machine Learning, Data Visualization, Statistics, Spatial Science, Geoscience, Environmental Science, Content Development, Content Marketing, Advertising

SKILL SET :

Tools: Tableau, Power BI, Hadoop

Programming language: C, C++, JavaScript, Python, R, SQL

Packages and Frameworks: Pandas, Numpy, Scikit-learn, Matplotlib, seaborn, ggplot2 , Tensorflow, Rattle

NAME: Tanay Goswami



SUMMER PROJECT :

NYSE Stock price prediction using RNN LSTM deep learning model

AREA OF INTEREST :

Data Science, Financial Data Analytics, Investment Banking Analytics, Marketing Analytics, Machine Learning, Deep Learning, Statistical Modeling, Business Intelligence, Data Reporting, Big Data, Management Consulting Data, Artificial intelligence, RPA(Robotics) Analytics, Regulatory reporting and data analytics.

SKILL SET :

Tools: Tableau, Power BI, VBA Macro, Excel, Hadoop

Programming language: R, Python, SQL

Packages and Frameworks: Pandas, Numpy, Scikit-learn

NAME: Tonima Ghosh



SUMMER PROJECT :

Network Intrusion Detection.

AREA OF INTEREST :

Data Scientist, Machine learning, Data Mining, Deep Learning, Web Analytics, Data Analyst, Natural Language Processing

SKILL SET :

Tools: Pycharm, Jupyter, R Studio, ArcGIS, QGIS, Erdas Imagine, Tableau, PostgreSQL

Programming language: JAVA, PHP, HTML5, CSS3, Python, SQL, R Programming

Packages and Frameworks: Pandas, Numpy, Scikit-learn, Matplotlib, OpenCV, Keras, Tensorflow, Seaborn, imblearn

NAME: Gauri Vaidya



SUMMER PROJECT :

Self-Quarantined Mind State Analysis

AREA OF INTEREST :

Data Analysis, Machine Learning, Deep Learning, NLP

SKILL SET :

Tools: RStudio, Anaconda, PostgreSQL, ERDAS IMAGINE, ArcGIS

Programming language: Java, Python, R, SQL

Packages and Frameworks: Pandas, Numpy, Scikit-learn, Matplotlib, FactoMineR, factoextra, tm

NAME: Varun Shrivastava



SUMMER PROJECT :

Visualizing and analyzing the effect of COVID-19 on the growth of startups and various sectors.

AREA OF INTEREST :

Data Analysis, Machine Learning, Data Visualization, Spatial Analytics, Marketing Data Analytics, Artificial Intelligence, Text analysis and NLP

SKILL SET :

Tools: MS Excel, SAP, SAGE X3, Anaconda, ERDAS Imagine, Dash, Heroku, Google Earth, IBM watson, QGIS, ArcGIS, PostgreSQL

Programming language: Python, SQL

Packages and Frameworks: Pandas, Numpy, Plotly, Scikit-learn, Selenium, BeautifulSoup

NAME: Yogesh



SUMMER PROJECT :

Statistical Modeling of Corona virus in India

AREA OF INTEREST :

Machine learning, Data mining, Spatial analysis, Data Engineering, Statistical modelling, Natural language processing, Image processing, Healthcare, computer vision.

SKILL SET :

Tools: Rstudio, Anaconda, Pycharm, ArcGIS, ERDAS Imagine, PostgreSQL.

Programming language: Python, R

Packages and Frameworks: ggplot2, TensorFlow, Scikit-learn, Matplotlib, Numpy, Pandas, Bibliometrix

NAME: Yukta Khurana



SUMMER PROJECT :

Clustering geolocation data of transportation sector.

AREA OF INTEREST :

Data science, Machine learning, Data mining, Data visualization, Statistical Analyst, Business Intelligence Analyst, Spatial Analysis, Computer Vision, Deep learning, Artificial Intelligence, Natural language processing, Ecommerce, Retail, Insurance, Healthcare.

SKILL SET :

Tools: Spyder, Jupyter, Rstudio, Arcgis, Erdas Imagine , Qgis, Tableau, PostgreSQL

Programming language: Python, R

Packages and Frameworks: Pandas, Numpy, Scikit-learn, Matplotlib, ggplot2, folium, Keras

NAME: Soham Ghosal



SUMMER PROJECT :

Malaria Cell Image Classification

AREA OF INTEREST :

Data Analysis, Medical Data Analysis, Spatial Data Analysis, Machine Learning, Data Mining and Statistical Modeling, Business Intelligence Analyst, Data Visualization, Image Processing, Deep Learning, Artificial Intelligence, NLP, Finance, Healthcare, Insurance, Scientific Research work

SKILL SET :

Tools: R Studio, Jupyter, Spyder, Tableau, Oracle SQL, PostgreSQL, ARCGIS, QGIS, ERDAS Imagine

Programming language: Python, R

Packages and Frameworks: Pandas, Numpy, Seaborn, Matplotlib, Plotly, Scipy, Keras, Tensorflow, Scikit-learn

NAME: Akhil Maru



SUMMER PROJECT :

Geospatial Object Detection with region-based CNN

AREA OF INTEREST :

Machine learning, Spatial analysis, Quantitative analyst, Business Intelligence analyst, Statistical analyst, Quality control, Marketing analyst, Operations analyst, Finance, Healthcare, Insurance, Intelligence designer, Linguistic analyst.

SKILL SET :

Tools: ArcGIS, QGIS, ERDAS Imagine, PyCharm, Jupyter, Hadoop, R-Studio, Tableau, MySQL, PostgreSQL

Programming language: SAS, C, Python, R, SQL, JavaScript

Packages and Frameworks: Pandas, Numpy, Matplotlib, nltk, caret, bibliomertix, Keras, Tensorflow, Scikit-learn

NAME: Divya Chandra



SUMMER PROJECT :

Comparative and Predictive analysis of Covid19 cases and its recovery rate in India and the World with the focus study of relief and medical service analysis in India.

AREA OF INTEREST :

Data Mining, Machine learning, Data Visualization, Spatial analysis, Business Intelligence analyst, Marketing analyst, Natural Language Processing (NLP), Healthcare, Image Processing.

SKILL SET :

Tools: Rstudio, Jupyter, ArcGIS, QGIS, ERDAS Imagine, Tableau, MySQL, PostgreSQL

Programming language: Python, R, SQL

Packages and Frameworks: Pandas, numpy, matplotlib, opencv, plotly, json, dplyr, tidyverse, tidyr, stringr, ggplot2, ModelIR, Broom R

NAME: Ashwini Sudam Patil



SUMMER PROJECT :

Air Quality Index Level Classification Using Machine Learning Techniques

AREA OF INTEREST :

Data Analysis, Machine Learning, Data mining, Deep Learning, Data visualization, Statistical Modelling

SKILL SET :

Tools: Anaconda, RStudio, ERDAS Imagine, ArcGIS, PostgreSQL

Programming language: C, Python, R

Packages and Frameworks: Pandas, Numpy, Plotly, Scikit-learn, Graphviz, Matplotlib

NAME: Pritha Roy



SUMMER PROJECT :

Air Pollution Data Analysis of India (1987-2018) using R Studio.

AREA OF INTEREST :

Data Analysis, Spatial Analysis, Urban Planning, Statistical Modeling, Data Mining, Machine Learning, Database Management, Disaster Management.

SKILL SET :

Tools: ArcGIS, QGIS, ERDAS Imagine, MS Office (Word, Excel, PowerPoint, Access and Outlook), PostgreSQL

Programming language: Python, Java, R, HTML, Oracle SQL, JavaScript

Packages and Frameworks: ggplot2, dplyr, Tidyverse, Numpy, matplotlib, StatsModels, igraph, plotly.

NAME: Pooja Sawat



SUMMER PROJECT :

Change point detection and trend analysis of climatic series using statistical analysis.

AREA OF INTEREST :

Data analysis, Data Mining, Machine Learning, Deep Learning, Statistical Modeling, Data Visualization.

SKILL SET :

Tools: R-Studio, Anaconda, QGIS, ArcGIS, ERDAS Imagine, PostgreSQL

Programming language: Python, C, R, SQL

Packages and Frameworks: pandas, numpy, plotly, scikit-learn, Matplotlib, tensorflow.

NAME: Shafia Amin



SUMMER PROJECT :

Uber Data Analysis and Prediction Using Python and ML Algorithms.

AREA OF INTEREST :

Web Development, Data Analyst, Data Engineer, Database management, Machine learning, Deep learning, AI, BI, Big Data.

SKILL SET :

Tools: Anaconda (Jupyter), Pycharm, Rstudio, XAMPP, Visual Studio, ArcGIS(Desktop), Erdas Imagine, QGIS, Django, Tableau, Power BI, PostgreSQL, MySQL

Programming language: C, C++, HTML, CSS, JAVA, JavaScript, Python, R, PHP, .Net, SQL

Packages and Frameworks: Pandas, Numpy, Scikit-learn, Seaborn, Matplotlib, statsmodel, Datetime .

Contact Us

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॥ वसुधैव कुटुम्बकम् ॥